Appl. No. 09/957,456 Amdt. Dated February 26, 2004 Reply to Office action of November 26, 2003

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claim 1 (Currently amended): A method of identifying a modulator of chondrogenesis comprising:

- (a) providing primary limb mesenchymal cells capable of differentiating into chondroblasts or chondrocytes;
- (b) transiently transfecting the cells with a nucleic acid construct comprising a reporter gene that comprises a sequence upstream of the promoter from the type II collagen gene (Col2a1) that binds to an endogenous protein in the cells that is changed upon chondroblast or chondrocyte differentiation the transcription factor Sox9 that is endogenous to the cells;
- (c) adding a test compound to the transfected cells; and
- (d) determining the effect of the test compound on the reporter gene activity, wherein a change in reporter gene activity as compared to a control indicates that the test compound modulates chondroblast or chondrocyte differentiation.

Claims 2-5 (cancelled).

Claim 6 (previously amended): A method according to claim 5 wherein the nucleic acid construct comprises at least one Sox9 binding site, and further comprises a promoter and a detectable marker.

Claim 7 (Original): A method according to claim 6 wherein the nucleic acid construct contains four Sox9 binding sites.

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Claim 8 (Original): A method according to claim 6 wherein the marker encodes a luciferase or an enhanced green fluorescent protein.

Claim 9 (Original): A method according to claim 6 wherein the nucleic acid construct is pGL3(4X48)-luciferase as shown in Figure 6.

Claim 10 (Original): A method according to claim 6 wherein the nucleic acid construct is pGL3(4X48)-enhanced green fluorescent protein as shown in Figure 6.

Claim 11 (Canceled).

Claim 12 (previously amended): A method according to claim 1 wherein the cells form a confluent monolayer with precartilaginous condensations evident within 24 hours.

Claim 13 (Original): A method according to claim 1 wherein the test compound is a nucleic acid molecule comprising a test gene that is transfected into the cells.

Claims 14-26: (Canceled).